

## Chapter 11 Introduction to Genetics

## Section Review 11-5

### Reviewing Key Concepts

**Multiple Choice** *On the lines provided, write the letter of the answer that best completes the sentence or answers the question.*

- \_\_\_\_\_ 1. Which of the following structures assort independently?  
 a. genes c. chromosomes  
 b. crossovers d. genotypes
- \_\_\_\_\_ 2. Genes on the same chromosome  
 a. never separate. c. always separate.  
 b. sometimes separate. d. don't show linkage.

### Reviewing Key Skills

3. **Applying Concepts** What conclusions did Morgan arrive at with his experiments on fruit flies? Why did they extend Mendel's conclusions?

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4. **Applying Concepts** Why didn't Mendel observe linkage?

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5. **Applying Concepts** How do crossover events during meiosis benefit organisms?

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**Interpreting Graphics** *Use the diagram below to answer the following questions.*

6. Name the type of diagram that shows locations of genes on a chromosome.

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7. Which two genes in the diagram are most likely to be separated during a crossover event? \_\_\_\_\_

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8. Name a pair of genes in the diagram that are unlikely to be separated as the result of crossing-over. Explain your answer.

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